

SeaQuest AEM Update

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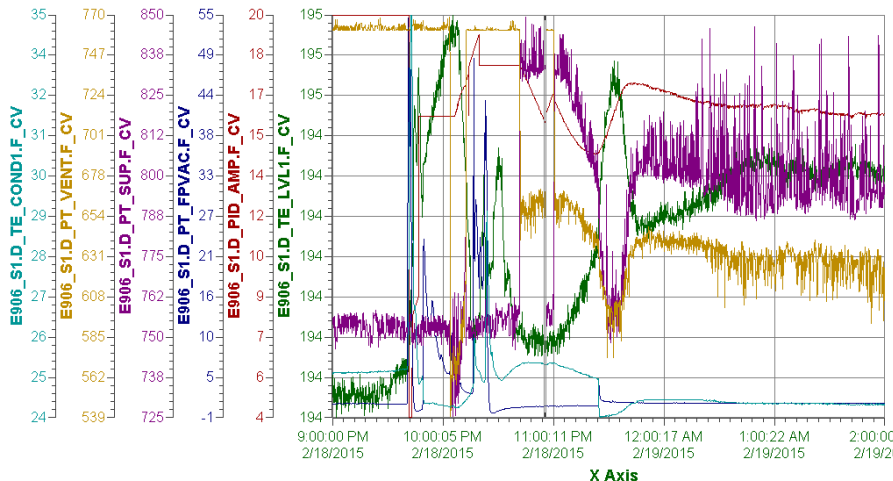
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Status Summary

- ▶ Target - Multiple “Snow Flake” Events
- ▶ Hodoscopes - 10% Improvement in efficiency
- ▶ DAQ & Trigger - NIM Power Supply Failure
- ▶ Chambers - Updates, Upgrades, and Fixes

Snow Flake Event?

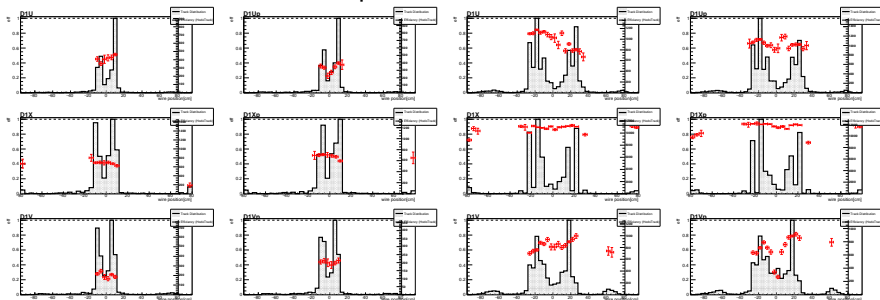


Condensed vacuum particulate breaks free from flask and expands *inside* insulation vacuum, triggering safety systems.

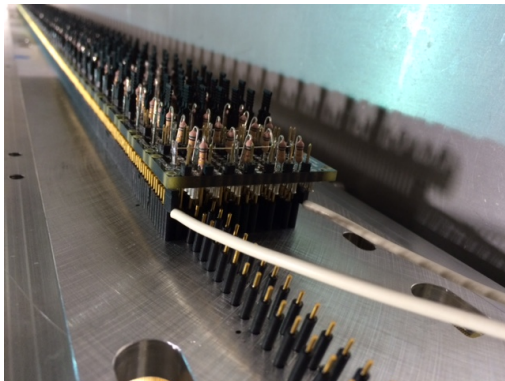
St.1 Chamber

- ▶ Phantom short after Dec. 14 beam dump

Improvement over initial efficiencies, but noticed sagging on “outer planes”



St. 1 Chamber



Resistors added to outer planes in order to reduce electrostatic wire bowing→ greater efficiency

St. 1 Chamber

- ▶ Dec. 21 - Broken wire was found and removed during installation
- ▶ Dec. 31 - CAEN power supply software problem resolved
- ▶ Jan. 1 - Another short, 2 broken wires removed



Conclusive Summary

- ▶ Target snowflake event, no gas lost
- ▶ Station 1. Chamber Operational but low on Ar/CO₂, Borrowed some from MTest
- ▶ Station 2. Chamber operational on temporary power supply after failure

Waiting on Ar/CO₂ and Flammable gas mixture for data taking.